Appendix XV.

[Vide answer to question No. 1088 asked by Subadar-Major S. A. Nanjappah Bahadur at the meeting of the Legislative Council held on the 28th January 1929, page 72 supra.]

I

Results of the Demonstration plots in VIII Circle, 1927–28.

Name of village and sub-circle. (1)	Area. (2)	Treatment. Cultural. (3)	Treatment. Manurial. (4)	Yield of grain. Per plot. (5)	Yield of grain. Per acre. (6)	Cost of cultivation per acre. Cultural. (7)	Cost of cultivation per acre. Manurial. (8)	Cost of cultivation per acre. Total. (9)	Value of produce per acre. (10)	Net profit per acre. (11)	Extra profit due to improvement per acre. (12)
	ACS.			LB.	LB.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. Manurial Trials.											
1. Paddy—Co. 1.											
Anaiyampatti (Attur).	0·60	Ordinary cultivation.	Daincha ploughed in—8,000 lb. per acre.	1,910	3,183	47 6 4	10 6 8	57 13 0	181 14 0	124 1 0	4 2 8*
	0·60		Daincha ploughed in—8,000 lb. per acre *plus* 120 lb. sulphate of ammonia per acre.	1,990	3,317	47 6 4	22 8 0	69 14 4	188 0 0	119 14 4	
2. Paddy—Local Sadai Samba.											
Thulukkannur (Attur).	0·10	Ordinary cultivation.	Green leaves—4,000 lb. per acre.	265	2,650	70 0 0	21 14 0	91 14 0	166 7 0	74 9 0	11 5 4
	0·30		Green leaves—4,000 lb. per acre *plus* superphosphate—186 lb. per acre.	900	3,000	70 0 0	31 0 8	101 0 8	186 15 0	85 14 4	
3. Paddy—Co. 1.											
Anaiyampatti (Attur).	0·22	Ordinary cultivation.	Green leaves—4,000 lb. per acre.	830	3,772	40 13 1	12 8 0	53 5 1	230 2 0	176 12 11	0 10 3
	0·22		Green leaves—4,000 lb. per acre *plus* superphosphate 190 lb. per acre.	850	3,863	40 10 1	20 11 9	61 5 10	238 13 0	177 7 2	

* Loss.

Results of the Demonstration plots in VIII Circle, 1927–28—*cont.*

Name of village and sub-circle. (1)	Area. (2)	Treatment. Cultural. (3)	Treatment. Manurial. (4)	Yield of grain. Per plot. (5)	Yield of grain. Per acre. (6)	Cost of cultivation per acre. Cultural. (7)	Cost of cultivation per acre. Manurial. (8)	Cost of cultivation per acre. Total. (9)	Value of produce per acre. (10)	Net profit per acre. (11)	Extra profit due to improvement per acre. (12)
	ACS.			LB.	LB.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. MANURIAL TRIALS—*cont.*											
4. Paddy—Co. 1.											
Anaiyampatti (Attur).	0·60	Ordinary cultivation.	Daincha ploughed in—8,000 lb. per acre.	1,910	3,183	47 6 4	10 6 8	57 13 0	181 14 0	124 1 0	15 9 8 Loss.
	1·80		Daincha ploughed in—8,000 lb. per acre *plus* 168 lb. superphosphate per acre.	5,535	3,075	48 2 1	18 8 0	66 10 11	175 2 3	108 7 4	
8. Paddy—Local Sadai Samba.											
Anaiyampatti (Attur).	0·50	Ordinary cultivation.	Indigo in situ—9,000 lb. per acre.	747	1,494	39 4 0	11 4 0	50 8 0	92 12 0	42 4 0	53 15 9
	0·50		Indigo in situ—9,000 lb. per acre *plus* bonemeal 250 lb. per acre.	1,286	2,572	39 4 0	23 4 0	62 8 0	158 11 9	96 3 9	
11. Paddy—G.B.E. 24.											
Gangavalli (Attur).	0·33	Ordinary cultivation.	Cattle manure—4,000 lb. per acre.	1,035	3,100	76 8 0	6 0 0	82 8 0	201 4 0	118 12 0	12 7 0
	0·33		Cattle manure—4,000 lb. per acre *plus* sulphate of ammonia 160 lb. and superphosphate 168 lb. per acre.	1,215	3,627	76 8 0	30 4 0	106 12 0	237 15 0	131 3 0	

12. Paddy—Local Sadai Samba.

Ettapur (Attur).	0·175	Ordinary cultivation.	Daincha—4,850 lb. per acre.	318·5	1,820	66	11	6	12	2	6	79	8	0	119	7	0	39	15	0	28	10	0	
	0·175		Daincha—4,850 lb. per acre *plus* sulphate of ammonia 160 lb. and superphosphate 168 lb. per acre.	434	2,480	67	3	6	25	11	6	92	15	0	161	8	0	68	9	0				

13. Paddy—Local Sadai Samba.

Ettapur (Attur).	0·075	Ordinary cultivation.	Groundnut haulms—4,666 lb. per acre.	147	1 960	70	6	8	11	10	8	82	1	4	129	0	0	46	14	8	9	9	7	
	0·075		Groundnut haulms—4.666 lb. ammonium sulphate 160 lb., superphosphate 168 lb. (each per acre).	178½	2,380	70	6	8	29	2	8	99	9	4	156	1	7	76	8	3				

14. Paddy—G.E.B. 24.

Abinavam (Attur).	0·10	Ordinary cultivation.	Cattle manures—4,000 lb. per acre.	135	1,350	73	9	6	3	14	6	77	8	0	95	12	0	18	4	0	31	12	8	
	0·10		Cattle manure—4,000 lb. *plus* sulphate of ammonia 160 lb. *plus* superphosphate 168 lb. (each per acre).	209	2,090	73	9	6	23	10	4	97	3	10	147	4	6	50	0	8				

15. Paddy—Local Sadai Samba.

Abinavam (Attur).	0·085	Ordinary cultivation.	Cattle manure—4,000 lb. per acre.	160	1,882	73	3	3	3	13	9	77	0	0	123	0	8	46	0	8	8	1	0	* Loss.
	0·085		Cattle manure—4,000 lb. sulphate of ammonia 160 lb., superphosphate 168 lb. (each per acre).	172	2,028	73	2	6	23	8	6	96	11	0	134	10	8	37	15	8				

* The crop was under well irrigation. Water-supply failed in the later stages of the crop and the extra yield obtained has not paid for the manure.

Results of the Demonstration plots in VIII Circle, 1927-28—*cont.*

Name of village and sub-circle. (1)	Area. (2)	Treatment. Cultural. (3)	Treatment. Manurial. (4)	Yield of grain. Per plot. (5)	Yield of grain. Per acre. (6)	Cost of cultivation per acre. Cultural. (7)	Cost of cultivation per acre. Manurial. (8)	Cost of cultivation per acre. Total. (9)	Value of produce per acre. (10)	Net profit per acre. (11)	Extra profit due to improvement per acre. (12)
	ACS.			LB.	LB.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. Manurial Trials—*cont.*											
16. Paddy—Co. 1.											
Anaiyampatti (Attur).	0·22	Ordinary cultivation.	Green leaves—4,000 lb. per acre.	830	3,772	42 1 0	11 4 0	53 5 0	230 2 0	176 13 0	8 5 0
	0·22		Green leaves—4,000 lb., sulphate of ammonia 180 lb., superphosphate 190 lb. (each per acre).	945	4,295	40 13 0	40 10 0	81 7 0	266 9 0	185 2 0	
17. Paddy—Sadai Samba.											
Annadanapatti (Salem).	0·70	Ordinary cultivation.	Two cart-loads green leaves per acre.	1,339	1,913	Same.	..	..	158 1 0	..	3 5 0
	0·66		Two cart-loads green leaves, sulphate of ammonia 83 lb., superphosphate 112 lb. (each per acre).	1,411	2,138		Extra 13 4 0	..	174 10 0	..	
18. Paddy—Co. 1.											
Kattanachchampatti (Rasipur).	0·105	Ordinary cultivation.	Four and three-fourths cart-loads cattle manure per acre.	280	2,666	Same.	..	..	209 8 0	..	13 13 8
	0·105		Four and three-fourths cart-loads cattle manure, 2 cwt. superphosphate, 1 cwt. sulphate of ammonia (each per acre), sulphate ammonia applied one month after planting.	325	3,098		Extra 21 2 4	..	244 8 0	..	

19. Paddy—Co. 3.

Anaiyampatti (Attur).	0·05	Ordinary cultivation.	Indigo in situ—9,000 lb. per acre.	80	1,600	40 10 0	11 4 0	51 14 0	100 13 0	48 15 0	6 8 0
	0·10		Indigo in situ—3,000 lb., sulphate of ammonia 120 lb., superphosphate 224 lb., groundnut cake 300 lb. (each per acre).	218	2,180	40 10 0	40 0 0	80 10 0	136 1 0	55 7 0	

20. Kar paddy.

Masakalipatti (Rasipur).	0·07	Ordinary cultivation.	Seven cart-loads cattle manure and 170 lb. groundnut cake per acre.	110	1,571	118 5 4	12 8 0	120 13 4	142 7 2	21 9 10	18 2 4
	0·07		Seven cart-loads cattle manure *plus* 170 lb. groundnut-cake *plus* 170 lb. sulphate of ammonia *plus* 170 lb. superphosphate per acre.	145	2,071	109 14 4	36 15 8	146 14 0	186 10 2	39 12 2	

22. Paddy—Sadai Samba.

Gollapatti (Dharmapuri).	0·55	Ordinary cultivation.	Green leaves—4,000 lb. per acre.	..	2,400	..	..	..	131 0 0	..	20 8 0
			Green leaves—4,000 lb. *plus* one bag each of superphosphate and sulphate of ammonia.	1,760	3,200	..	26 0 0	..	177 8 0	..	

23. Paddy—Sadai Samba.

Gollapatti (Dharmapuri).	1·00	Ordinary cultivation.	Green leaves—4,000 lb. per acre.	..	2,000	..	..	..	131 0 0	..	17 8 0
			One bag sulphate of ammonia *plus* one bag superphosphate per acre.	2,500	2,500	..	14 0 0	..	162 8 0	..	

Results of the Demonstration plots in VIII Circle, 1927-28—*cont.*

Name of village and sub-circle. (1)	Area. (2)	Treatment. Cultural. (3)	Treatment. Manurial. (4)	Yield of grain. Per plot. (5)	Yield of grain. Per acre. (6)	Cost of cultivation per acre. Cultural. (7)	Cost of cultivation per acre. Manurial. (8)	Cost of cultivation per acre. Total. (9)	Value of produce per acre. (10)	Net profit per acre. (11)	Extra profit due to improvement per acre. (12)
	ACS.			LB.	LB.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. Manurial Trials—*cont.*											
24. Paddy—Manavari.											
Halay Dharmapuri (Dharmapuri).	..	..	4,000 lb. green leaves per acre.	..	..	..	..	..	..	..	..
	..		Two bags sulphate of ammonia *plus* one bag superphosphate *plus* 4,000 lb. green leaves per acre.	..	..	..	..	..	..	7 8 0	
25. Ragi.											
Mekkaipilur (Attur).	0·50	Ordinary cultivation.	Cattle manure five carts per acre.	1,185	2,370	43 6 0	12 0 0	55 6 0	137 6 5	82 0 5	11 7 7
	0·50		Cattle manure five carts *plus* sulphate of ammonia 80 lb. *plus* superphosphate 168 lb. per acre.	1,425	2,850	43 6 0	28 4 0	71 10 0	165 2 0	93 8 0	
26. Sugarcane—Jaggery.											
Gollapatti (Dharmapuri).	0·33	Ordinary cultivation.	Sixty carts of cattle manure per acre.	1,750	5,250	..	..	..	420 0 0	..	120 0 0
	0·33		Sixty carts of cattle manure *plus* six bags ammonium sulphate per acre.	2,500	7,500	..	51 0 0	..	600 0 0	..	

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II. Varietal Tests on Paddy.

(1)											
Halay Dharmapuri (Dharmapuri).	1·00	G.E.B. 24; ordinary cultivation.	Seven carts of cattle manure per acre.	2,250	2,250	41 8 0	17 8 0	59 0 0	168 8 0	109 8 0	6 0 0†
	1·30	Tiruppattur Samba ordinary cultivation.	Four carts of cattle manure per acre.	2,750	2,110	24 6 2	9 9 10	34 0 0	149 8 0	115 8 0	
(2)											
Papparapati (Dharmapuri).	0·60	G.E.B. 24; ordinary cultivation.	Green leaves applied from outside.	2,240	3,360	68 15 4	1 0 8	70 0 0	251 0 0	181 0 0	22 0 0
	1·20	Nellore Samba ordinary cultivation.	Daincha ploughed in ..	3,750	3,100	59 9 4	0 6 8	60 0 0	219 0 0	159 0 0	
(4)											
Abinavam (Attur).	0·10	G.E.B. 24; ordinary cultivation.	Equal treatment ..	135	1,350	..	..	77 8 0	95 12 0	18 4 0	27 11 11†
	0·85	Local Sadai Samba ordinary cultivation.		160	1,882	..	..	77 0 9	123 0 8	15 15 11	
(5)											
Anaiyampatti (Attur).	0·22	C.O. 1 ..	Equal treatment ..	330	3,600	..	..	52 12 6	230 2 0	177 5 6	25 2 0
	0·22	Local Sadai Samba.		712	3,234	..	..	50 10 6	202 14 0	152 3 6	
(6)											
Abinavam (Attur).	1·00	C.O. 2 ..	Equal treatment ..	3,035	3,035	..	..	103 0 0	188 15 0	85 15 0	44 2 0
	0·75	Local Sadai Samba.		1,687	2,250	..	..	103 0 0	144 13 0	41 13 0	
(7)											
Anaiyampatti (Attur).	0·05	C.O. 3 ..	Equal treatment ..	830	3,600	..	..	50 10 0	101 3 0	50 9 0	20 2 6
	0·20	Local Sadai Samba.		262	1,310	..	..	53 9 0	83 15 6	30 6 6	

* The quality of jaggery from the manured plot was superior to that obtained from the control.

† Loss.

Results of the Demonstration plots in VIII Circle, 1927–28—*cont.*

Name of village and sub-circle. (1)	Area. (2)	Treatment. Cultural. (3)	Treatment. Manurial. (4)	Yield of grain. Per plot. (5)	Yield of grain. Per acre. (6)	Cost of cultivation per acre. Cultural. (7)	Cost of cultivation per acre. Manurial. (8)	Cost of cultivation per acre. Total. (9)	Value of produce per acre. (10)	Net profit per acre. (11)	Extra profit due to improvement per acre. (12)
	ACS.			LB.	LB.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
III.—Cultural Demonstration.											
(1) Paddy.											
Anaiyampatti (Attur).	0·50	Ploughing with country plough six times.	Equal treatment ..	947	1,884	..	..	50 8 0	117 9 0	67 1 0	16 0 0
	0·50	Ploughing with Konkan plough, six times.		1,055	2,010	..	..	48 8 0	131 9 0	83 1 0	
(2) Paddy.											
Anaiyampatti (Attur).	0·50	Ploughing with country plough, six times.	Equal treatment ..	800	1,600	..	..	51 4 0	101 3 0	49 15 0	38 8 0
	0·50	Ploughing with monsoon plough, four times.		109	1,880	..	..	47 10 0	136 1 0	88 7 0	
(3) G.E.B. 24 Paddy.											
Kumarasami-patti (Salem).	0·45	Bunch planting.	Equal treatment ..	1,386	3,080	Seeds.	Sowing only.	6 0 0	228 0 0	..	10 12 0
	0·54	Economic planting.		1,716	3,176	Do.	..	2 0 0	234 12 0	..	
(4) Paddy.											
Anaiyampatti (Attur).	0·22	Bunch planting.	Equal treatment ..	700	3,182	..	..	55 0 6	181 13 0	126 12 6	7 7 0
	0·22	Economic planting.		712	3,234	..	..	50 10 6	184 14 0	134 3 6	

28th January 1929]

II

One hundred and twelve borings aggregating a total depth of 4,670 feet have been put down during the past eight years in the following villages of Salem district :—

1. Danishpet.
2. Udaiyanpattimitta.
3. Meenankadu.
4. Pachala.
5. Salem.
6. Agraharanattaramangalam.
7. Pinakramam.
8. Attayampatti.
9. Judge Thottam.
10. Hastampatti.
11. Rasipuram.
12. Suramangalam.
13. Kattinasipatti.
14. Chennagiri anicut.
15. Konsipathi Silavanpalaiyam.
16 Vembaditalam.
17. Nayakkanpatti.
18. Sivasamipuram.
19. Shevapet, Salem.
20. Vellalapuram.
21. Edappadi.
22. Jalakantapuram.
23. Avaniperur.
24. Dadapuram.
25. Vellanayakanpalaiyam.
26. Periyappatti.
27 Adikarapatti.
28. Harur.
29. Annasagaram.
30. Dharmapuri.
31. Kangayampatti.
32. Barur.
33. Krishnagiri.
34. Atur.
35. Gangavalli.
36. Peddanayakkanpalaiyam.
37. Anaiyampatti.
38. Sendamangalam.
39. Ariyanur.
40. Karikalankadu.
41. Akkaraipatti.
42. Hosur.
43. Denkanikota.
44. Arasakuppam.
45. Kelamangalam.
46. Marandapalli.
47. Mukkalapalli.
48. Tharamangalam.
49. Surappalli
50. Periavanavasi
51. Pappambadi.
52. Rami Reddippatti.

It is not clear whether information is desired as to the cost of sinking or constructing wells or of the cost of putting down borings ; information in regard to the former is not available. The cost in terms of fees paid to the Department for borings cannot also be readily furnished.